CDF Operations

Rob Roser (filling in)

All Experimenters' Meeting

October 17, 2005

Store Summary (10/10-10/17)
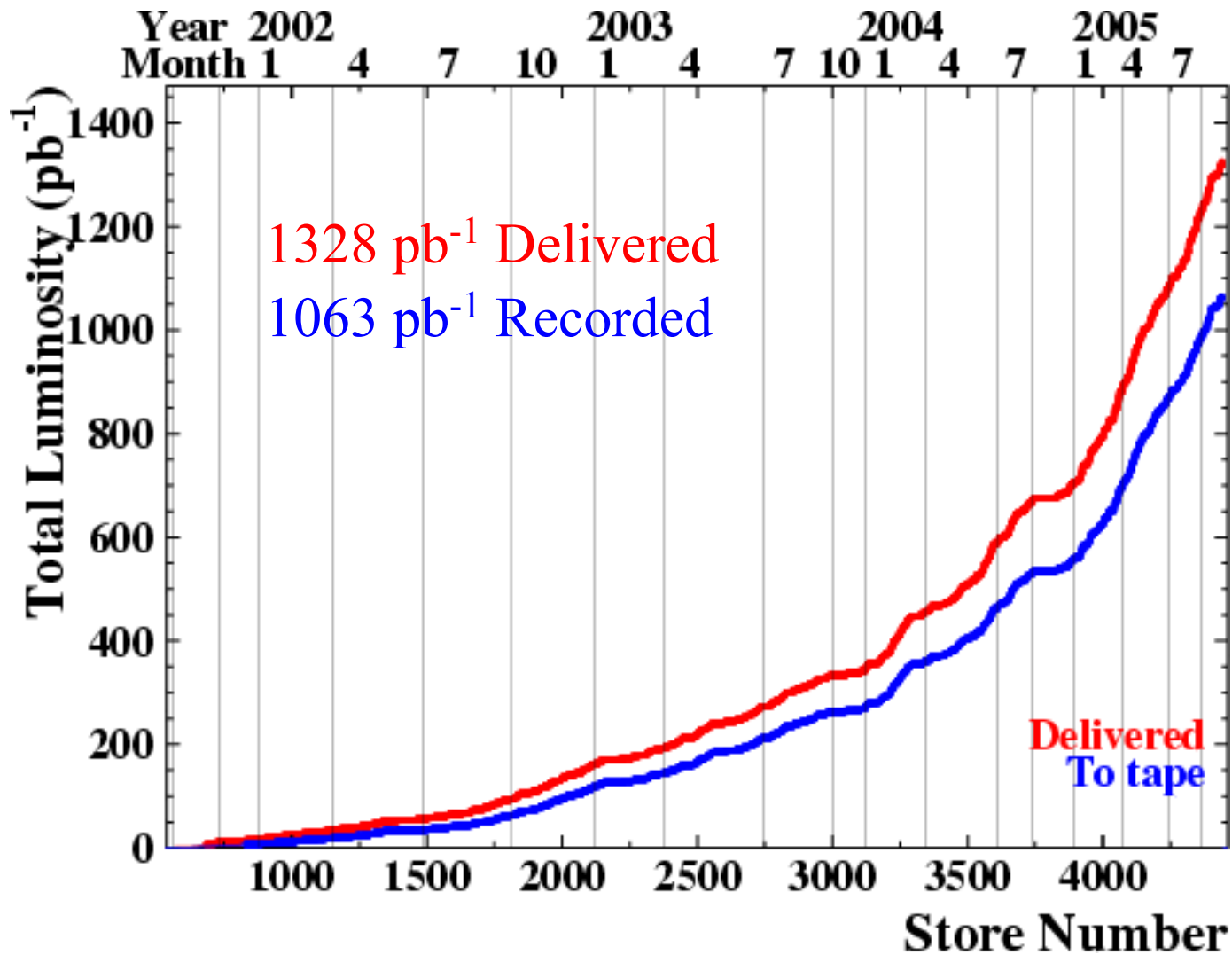
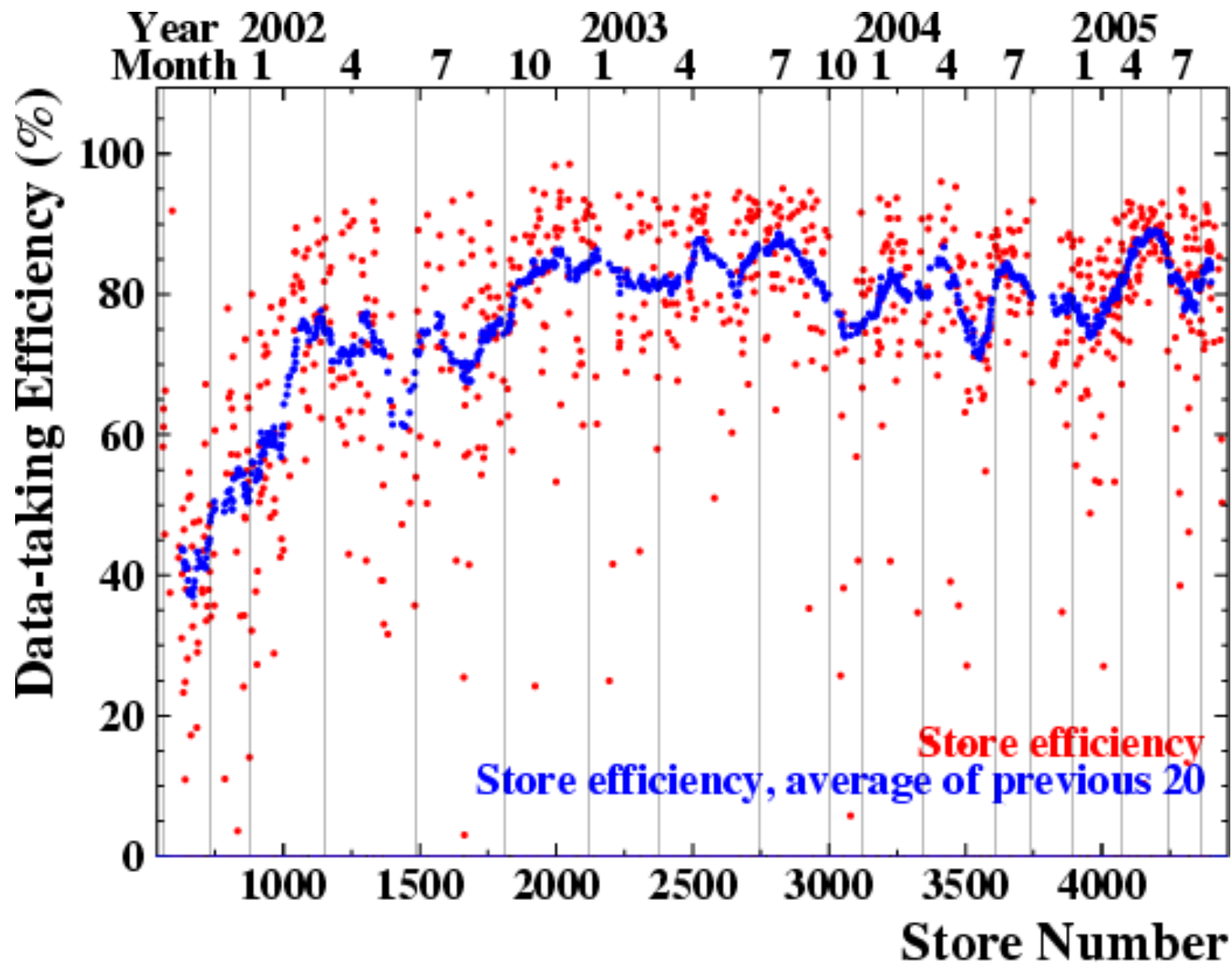| Store	Start	Duration (hours)	Uptime (hours)	Init. lumi (10^{30})	Delivered int. lumi (nb^{-1})	Live int. lumi (nb^{-1})	Comment
4439	10/11 Tues	11.7		126.8	2989	1777 60%	No Solenoid, L3 Trigger
4442	10/12 Wed	25.3		115.1	3570	1797 50%	No Solenoid until late In store
4445	10/13 Thur	30.6		152.4	5167	3557 69%	L1 Track Trigger Problems
4446	10/15 Sat	2.3		107.9	772	610 79%	Slowish Turn on of HV
4448	10/15 Sat	23.6		90.8	3021	2402 80%	Event Builder Hardware

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4449	10/16 Sun	ongoing		131.6	3262*	2777 85%	Minor DAQ Woes
Total	6 Stores				18781	12920 70%	

Integrated Luminosity

1328 pb^{-1} Delivered
1063 pb^{-1} Recorded

Data Taking Efficiency

Solenoid Saga

- Monday 12:20pm, solenoid current fast dump and all liquid helium lost
  - Hardware failure in crash dump system: bad relay switch replaced

- Monday evening, solenoid relief valve in collision hall was stuck
  - Prevented helium liquefaction from moving forward
  - heating of valve did not unstick it, so we removed it and rebuilt it

- Store went in early Tuesday, and dropped Tuesday evening
  - We ran without solenoid
  - Rebuilt Relief was tested and recertified
  - Store was dropped after just 12 hours for us – THANKS AD and D0

- Relief valve replaced on access Tuesday evening
- Helium production & solenoid cool-down from Tue. night to Wed. evening
- Solenoid carefully ramped back up Wednesday evening (ready at 7:40pm)
- Data taking with magnetic field resumed at 8:00pm on Wednesday

Offline Production Status

Data Taking Period	Lum. (pb⁻¹)	Tot. Lum. (pb⁻¹)	Data Availability	N-tuples Available	Physics Results
Feb.'02 – Aug.'04	318–550	318–550	v5.3.1	Ready	Spring '05
Dec.'04 – Mar.'05	109–132	427–682	v6.1.0(0f) Jul '05 v6.1.1(0h) Oct '05	Ready Ready	
Mar19–May20 '05	118–132	545–814	v6.1.1(0h) Aug'05	Ready	
May20–Jul20 '05	96–98	641–912	v6.1.1(0h) Sep'05	Ready	
Jul20–Aug30 '05	55	695–965	V6.1.1(0h) Oct. '05	~1 week	Moriond'06
Sep. '05	~50	740–1010	Nov. '05	Nov. '05	
Oct. '05	~50	790–1060	Dec. '05	Dec. '05	
Nov. '05	~50	840–1110	Jan. '06	Jan. '06	
Dec. '05	~50	890–1060	Feb. '06	Feb. '06	
Jan. '06	~50	940–1210	Mar. '06	Mar. '06	
Feb. '06	~50	990–1260	Apr. '06	Apr. '06	Summer'06

Latency between when data is taken and reconstructed and "ntuplized" is at most 6 weeks!